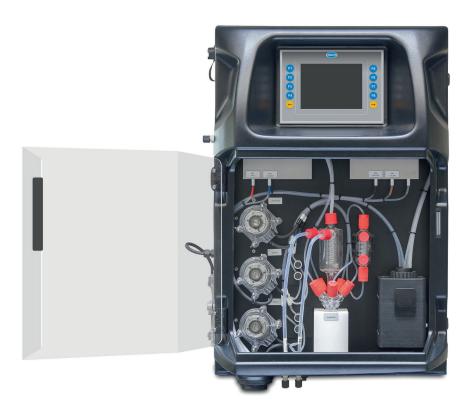
EZ2000 Series Online Colorimetric Analyzer for Total Nickel

Applications

- Wastewater
- Drinking Water
- Surface Water



Online colorimetric analysis of Total Nickel + Dissolved Nickel Ni(II) in water

Results you can rely on

EZ2000 Total Nickel Analyzers achieve excellent precision and accuracy. At the heart of the colorimeter there is a compact photometer assembly developed especially for the EZ Series. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length. The limit of detection is in the low $\mu g/L$ range.

EZ2000 Total Nickel Analyzers have an internal digestion unit. This additional step prior to analysis allows to measure non-soluble or complexed metal species.

Smart automatic features for calibration, validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximized uptime and negligible operator invervention. Precision micropumps dose all reagents. Sample lines and analysis vessel are cleaned with demineralised water to eliminate cross contamination between samples. Electronic and wet-chemical part of the analyzer are strictly separated. A transparent door allows for instant visual inspection of the wet part.

Flexibility that meets your needs

EZ Series Nickel Analyzers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated industrial panel PC. The modular build allows for the analyzer to match your application and operational needs.

- The standard measuring range can be narrowed by a different calibration range or extended via internal dilution options.
- Analog and digital output options
- Multiple stream analysis for up to 8 sample streams

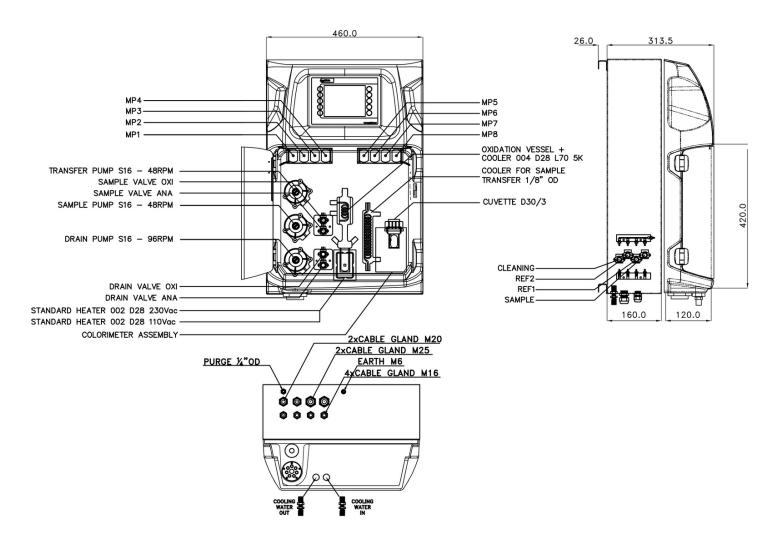


Technical Data*

Model	EZ2004	EZ2304				
Parameter	Nickel, total	Nickel, total Nickel Ni(II), dissolved				
Measurement Method	Colorimetric measurement using DMG color solution	Colorimetric measurement using DMG color solution				
Range	20 - 500 μg/L Ni Optional: 10 - 125 μg/L 10 - 250 μg/L 160 - 2000 μg/L 320 - 5000 μg/L 1 - 10 mg/L	20 - 500 μg/L Ni Optional: 10 - 125 μg/L 10 - 250 μg/L 160 - 2000 μg/L 320 - 5000 μg/L				
Precision	Better than 2% full scale range for standard test solutions	Better than 2% full scale range for standard test solutions				
Lower Limit of Detection (LOD)	≤ 10 µg/L	≤ 10 µg/L				
Cycle Time	20 minutes (dilution + 5 min.)	30 minutes (dilution + 10 min.)				
Interferences	Metal ions like Aluminium Al(III), Bismuth Bi(II), Cadmium Cd(II), Chromium Cr(III), Cobalt Co(II), Copper C Iron Fe(II), Iron Fe(III), Lead Pb(II), Manganese Mn(II), Magnesium Mg(II), Mercury Hg(II), Palladium Pd(II Platinum Pt(II), Silver Ag(I), Tin Sn(II), Zinc Zn(II). Large amounts of color and turbidity interferes. Fats, oil, proteins, surfactants and tar.					
Automatic cleaning	Yes					
Calibration	Automatic, 2-point; frequ	ency freely programmable				
Validation	Automatic; frequency freely programmable					
Ambient Temperature	10 - 30 °C ± 4 °C deviation (50 - 86 °F ± 7.2 °F deviation) at 5 - 95% relative humidity (non-condensing)					
Reagent Requirements	Keep between 10 - 30 °C (50 - 86 °F)					
Sample Pressure	By external overflow vessel					
Sample Flow Rate	100 - 300 mL/min					
Sample Temperature	10 - 30 °C (50 - 86 °F)					
Sample Quality	Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU					
Power	230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 VA					
Instrument Air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air					
Demineralized Water	For rinsing / dilution					
Drain	Atmospheric pressure, vented, min. Ø 64 mm					
Cooling Water	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar					
Earth Connection	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²					
Analog Outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)					
Digital Outputs	Optional: Modbus (TCP/IP, RS485)					
Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts					
Protection Class	Analyser cabinet: IP44 / Panel PC: IP65					
Material	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated					
Dimensions (H x W x D)	690 mm x 465 mm x 330 mm					
Weight	25 kg (55 lbs.)					
Certifications	CE compliant	/ ETL contified				

*Subject to change without notice.

Dimensions



Hach Service

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

DOC053.53.35322.0ct22

Order Information - Part Number Configurator

Total Ni, 20-500 μg/L EZ2004 Total Ni / Ni(II), 20-500 μg/L EZ2304	Y Y	х	х	х	х	2
Measurement range settings / Dilution options 25% of standard range 50% of standard range Standard range Internal micropump dilution (factor 4) Internal micropump dilution (factor 10) Internal micropump dilution (factor 20) (only EZ2004)	B C 0 1 3 4					
Power supply 230 VAC, 50/60 Hz 120 VAC, 50/60 Hz		A B				
Number of sample streams 1 stream 2 streams 4 streams 8 streams			1 2 4 8			
Outputs 1x mA 2x mA 4x mA 8x mA 1x mA + Modbus RS485 2x mA + Modbus RS485 4x mA + Modbus RS485 8x mA + Modbus RS485 1x mA + Modbus TCP/IP 2x mA + Modbus TCP/IP 4x mA + Modbus TCP/IP 8x mA + Modbus TCP/IP				1 2 4 8 E F H P I J L		
No adaption, standard version					0	

